



OIKE

RAW SEQUENCE LISTING

DATE: 05/13/2003

PATENT APPLICATION: US/09/964,662

TIME: 14:56:34

Input Set : A:\41082112.app

Output Set: N:\CRF4\05132003\I964662.raw

3 <110> APPLICANT: PROTEIN SPECIALTIES LTD.
 4 HSC RESEARCH AND DEVELOPMENT LIMITED PARTNERSHIP
 6 <120> TITLE OF INVENTION: SELF-ALIGNING PEPTIDES MODELED ON HUMAN ELASTIN AND
 7 OTHER FIBROUS PROTEINS
 9 <130> FILE REFERENCE: 041082/0112
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/964,662
 C--> 12 <141> CURRENT FILING DATE: 2003-05-08
 14 <150> PRIOR APPLICATION NUMBER: 09/340,736
 15 <151> PRIOR FILING DATE: 1999-06-29
 17 <160> NUMBER OF SEQ ID NOS: 11
 19 <170> SOFTWARE: PatentIn Ver. 2.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 731
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
 27 Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
 28 1 5 10 15
 30 Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
 31 20 25 30
 33 Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
 34 35 40 45
 36 Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
 37 50 55 60
 39 Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
 40 65 70 75 80
 42 Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
 43 85 90 95
 45 Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
 46 100 105 110
 48 Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
 49 115 120 125
 51 Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
 52 130 135 140
 54 Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
 55 145 150 155 160
 57 Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
 58 165 170 175
 60 Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
 61 180 185 190
 63 Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
 64 195 200 205
 66 Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/964,662

DATE: 05/13/2003

TIME: 14:56:34

Input Set : A:\41082112.app

Output Set: N:\CRF4\05132003\I964662.raw

```

67      210      215      220
69 Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
70 225      230      235      240
72 Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
73      245      250      255
75 Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
76      260      265      270
78 Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
79      275      280      285
81 Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
82      290      295      300
84 Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
85 305      310      315      320
87 Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
88      325      330      335
90 Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
91      340      345      350
93 Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
94      355      360      365
96 Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
97      370      375      380
99 Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Gly Val Gly Gly Val
100 385      390      395      400
102 Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
103      405      410      415
105 Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
106      420      425      430
108 Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
109      435      440      445
111 Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
112      450      455      460
114 Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
115 465      470      475      480
117 Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Ala Ile Gly Pro Gly
118      485      490      495
120 Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
121      500      505      510
123 Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
124      515      520      525
126 Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
127      530      535      540
129 Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Gly Ala Asp Glu
130 545      550      555      560
132 Gly Val Arg Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp Pro Ser
133      565      570      575
135 Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val Pro Gly
136      580      585      590
138 Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly
139      595      600      605

```

RAW SEQUENCE LISTING

DATE: 05/13/2003

PATENT APPLICATION: US/09/964,662

TIME: 14:56:34

Input Set : A:\41082112.app

Output Set: N:\CRF4\05132003\I964662.raw

```

141 Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly
142      610                      615                      620
144 Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala
145 625                      630                      635                      640
147 Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly
148      645                      650                      655
150 Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly
151      660                      665                      670
153 Ile Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly
154      675                      680                      685
156 Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val
157      690                      695                      700
159 Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala
160 705                      710                      715                      720
162 Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
163      725                      730
166 <210> SEQ ID NO: 2
167 <211> LENGTH: 200
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
173      polypeptide
175 <400> SEQUENCE: 2
176 Phe Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly
177  1      5      10      15
179 Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val
180      20      25      30
182 Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys
183      35      40      45
185 Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys
186      50      55      60
188 Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val
189 65      70      75      80
191 Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro
192      85      90      95
194 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val
195      100     105     110
197 Ala Pro Ala Ile Gly Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala
198      115     120     125
200 Ala Lys Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala
201      130     135     140
203 Ala Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro
204 145     150     155     160
206 Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu
207      165     170     175
209 Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val
210      180     185     190
212 Gly Val Ala Pro Ala Ile Gly Pro

```

RAW SEQUENCE LISTING

DATE: 05/13/2003

PATENT APPLICATION: US/09/964,662

TIME: 14:56:34

Input Set : A:\41082112.app

Output Set: N:\CRF4\05132003\I964662.raw

```

213          195          200
216 <210> SEQ ID NO: 3
217 <211> LENGTH: 4
218 <212> TYPE: PRT
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
223     polypeptide
225 <400> SEQUENCE: 3
226 Lys Ala Ala Lys
227 1
230 <210> SEQ ID NO: 4
231 <211> LENGTH: 5
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
237     polypeptide
239 <400> SEQUENCE: 4
240 Lys Ala Ala Ala Lys
241 1 5
244 <210> SEQ ID NO: 5
245 <211> LENGTH: 6
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
251     polypeptide
253 <400> SEQUENCE: 5
254 Pro Gly Val Gly Val Ala
255 1 5
258 <210> SEQ ID NO: 6
259 <211> LENGTH: 5
260 <212> TYPE: PRT
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
265     polypeptide
267 <400> SEQUENCE: 6
268 Val Pro Gly Val Gly
269 1 5
272 <210> SEQ ID NO: 7
273 <211> LENGTH: 4
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
279     polypeptide
281 <400> SEQUENCE: 7

```

RAW SEQUENCE LISTING

DATE: 05/13/2003

PATENT APPLICATION: US/09/964,662

TIME: 14:56:34

Input Set : A:\41082112.app

Output Set: N:\CRF4\05132003\I964662.raw

```

282 Val Pro Gly Gly
283 1
286 <210> SEQ ID NO: 8
287 <211> LENGTH: 30
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
293 polypeptide
295 <400> SEQUENCE: 8
296 Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly
297 1 5 10 15
299 Gly Leu Gly Tyr Gly Gly Leu Gly Tyr Gly Gly Leu Gly Tyr
300 20 25 30
303 <210> SEQ ID NO: 9
304 <211> LENGTH: 117
305 <212> TYPE: PRT
306 <213> ORGANISM: Homo sapiens
308 <400> SEQUENCE: 9
309 Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly Val
310 1 5 10 15
312 Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val Gly
313 20 25 30
315 Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys Tyr
316 35 40 45
318 Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala
319 50 55 60
321 Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val Gly
322 65 70 75 80
324 Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Leu Ala Pro Gly
325 85 90 95
327 Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala
328 100 105 110
330 Pro Ala Ile Gly Pro
331 115
334 <210> SEQ ID NO: 10
335 <211> LENGTH: 118
336 <212> TYPE: PRT
337 <213> ORGANISM: Homo sapiens
339 <400> SEQUENCE: 10
340 Phe Pro Gly Phe Gly Val Gly Val Gly Gly Ile Pro Gly Val Ala Gly
341 1 5 10 15
343 Val Pro Gly Val Gly Gly Val Pro Gly Val Gly Gly Val Pro Gly Val
344 20 25 30
346 Gly Ile Ser Pro Glu Ala Gln Ala Ala Ala Ala Lys Ala Ala Lys
347 35 40 45
349 Tyr Gly Val Gly Thr Pro Ala Ala Ala Ala Lys Ala Ala Ala Lys
350 50 55 60
352 Ala Ala Gln Phe Gly Leu Val Pro Gly Val Gly Val Ala Pro Gly Val

```

VERIFICATION SUMMARY

DATE: 05/13/2003

PATENT APPLICATION: US/09/964,662

TIME: 14:56:35

Input Set : A:\41082112.app

Output Set: N:\CRF4\05132003\I964662.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date